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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/607,029	06/27/2003	Chang Wook Han	049128-5111	5609	
	7590 07/13/2007 WIS & BOCKIUS LLP		EXAMINER		
1111 PENNSYLVANIA AVENUE NW			QUINTO,	QUINTO, KEVIN V	
WASHINGTO	N, DC 20004		ART UNIT PAPER NUMBER		
			2826		
			MAIL DATE	DELIVERY MODE	
			07/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/607,029	HAN, CHANG WOOK	
Office Action Summary	Examiner	Art Unit	
	Kevin Quinto	2826	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by star Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 22	June 2007.		
· · · · · · · · · · · · · · · · · · ·	his action is non-final.	·	
3) Since this application is in condition for allow	vance except for formal mat	ters, prosecution as to the merits is	\$
closed in accordance with the practice unde	r <i>Ex par</i> te Quayle, 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-28,30 and 32-36</u> is/are pending in	n the application.		
4a) Of the above claim(s) is/are withd	* 1 *		
5) Claim(s) 4-14,24-28,30 and 32-34 is/are allo	owed.		
6)⊠ Claim(s) <u>1,2,15-17,19 and 35</u> is/are rejected	l .		
7)⊠ Claim(s) <u>3,18,20-23 and 36</u> is/are objected t	O. ,		
8) Claim(s) are subject to restriction and	l/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) □ a	•	by the Examiner.	
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	· ·	
Replacement drawing sheet(s) including the corre			d).
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C.	119(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume		pplication No	
Copies of the certified copies of the pr	iority documents have beer	received in this National Stage	
application from the International Bure	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a li	st of the certified copies not	received.	
	•		
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date nformal Patent Application	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	* *	•

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DETAILED ACTION

Response to Amendment

- 1. The amendment under 37 C.F.R. §1.116 filed on June 22, 2007 has been entered.
- 2. The indicated allowability of claims 1-3, 15-23, 35, and 36 is withdrawn in view of the newly discovered reference(s) to Hayakawa et al. (USPN 6,858,898 B1) and Segawa (USPN 6,492,778 B1). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1, 2, 15, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Hayakawa et al. (USPN 6,858,898 B1).
- 5. In reference to claim 1, Hayakawa et al. (USPN 6,858,898 B1, hereinafter referred to as the "Hayakawa" reference) discloses a structure which meets the claim. Figures 1(A)-1(E), 2(A)-2(D), 12(A), and 12(B) of Hayakawa disclose an active matrix

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organic electro luminescence display panel device. There is a substrate (100) with at least one low refractive thin film (101a) formed directly on it. The examiner would like to note that the use of the word "on" by itself does not necessarily mean direct contact between two objects or layers in the semiconductor art. The word "on" by itself could mean that there may possibly be one or several layers between the two objects or layers to which the word "on" is referring. The applicant appears to interpret the word "on" in the same manner. An organic electro luminescence diode (3302, 3304, 3305) is formed on the low refractive thin film (101a) to selectively emit light. A switching device (3202) is formed on the low refractive thin film (101a) for selectively driving the organic electroluminescence diode. A capacitor (54, 12, 55) is formed on the low refractive thin film (15) in order to sustain light emission of the organic electro luminescence diode.

- 6. With regard to claim 2, the refractive rate of the low refractive thin film (101a) is 1.5 (column 10, lines 37-43).
- 7. In reference to claim 15, Hayakawa (USPN 6,858,898 B1) discloses a method which meets the claim. Figures 1(A)-1(E), 2(A)-2(D), 12(A), and 12(B) of Hayakawa disclose an active matrix organic electro luminescence display panel device. There is a substrate (100) with at least one low refractive thin film (101a) formed directly on it. The examiner would like to note that the use of the word "on" by itself does not necessarily mean direct contact between two objects or layers in the semiconductor art. The word "on" by itself could mean that there may possibly be one or several layers between the two objects or layers to which the word "on" is referring. The applicant appears to interpret the word "on" in the same manner. An organic electro luminescence diode

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(3302, 3304, 3305) is formed on the low refractive thin film (101a) to selectively emit light. A switching device (3202) is formed on the low refractive thin film (101a) for selectively driving the organic electroluminescence diode. A capacitor (54, 12, 55) is formed on the low refractive thin film (15) in order to sustain light emission of the organic electro luminescence diode.

- 8. With regard to claim 17, the refractive rate of the low refractive thin film (101a) is 1.5 (column 10, lines 37-43).
- 9. Claims 16, 19, and 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Segawa (USPN 6,492,778 B1).
- 10. In reference to claim 16, Segawa (USPN 6,492,778 B1) discloses a method which meets the claim. Figures 1, 2A, and 2B of Segawa disclose an active matrix organic electro luminescence display panel device. There is a substrate (10) with at least one low refractive thin film (15 either SiO₂ or SiN, column 1, lines 64-67 and column 2, lines 18-21) formed on it. The examiner would like to note that the use of the word "on" by itself does not necessarily mean direct contact between two objects or layers in the semiconductor art. The word "on" by itself could mean that there may possibly be one or several layers between the two objects or layers to which the word "on" is referring. The applicant appears to interpret the word "on" in the same manner. An organic electro luminescence diode (61, 62, 63) is formed on the low refractive thin film (15) to selectively emit light. A switching device (41, 12, 43, 14) is formed on the low refractive thin film (15) in order to sustain light emission of the organic electro luminescence diode.

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11. In reference to claim 19, a first electrode (61) of transparent conductive material is formed on the low refractive thin film (15) connected with the switching device. An organic light emission layer (62) of organic luminous material is formed on the first electrode (61). A second electrode (63) of metal material is formed to cover the organic light emission layer (62), the switching device, and the capacitor (column 2, lines 33-39).

12. With regard to claim 35, Segawa discloses that the refractive rate of the low refractive thin film is 1.46 (column 3, lines 11-15).

Allowable Subject Matter

- 13. Claims 4-14, 24-28, 30, 32-34 are allowed.
- 14. Claims 3, 18, 20-23 and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 15. The following is a statement of reasons for the indication of allowable subject matter: the examiner is unaware of any prior art which suggests or renders obvious an active matrix organic electro luminescence display panel device with the explicit layer structure with regard to the low refractive thin film directly on a substrate, the buffer layer and capacitor electrode as described the applicant.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KVQ

SUE A. PURVIS SUE A. PURVIS PATENT EXAMINER